

Mutations Practice

Name _____ Per. _____

There are several types of genetic mutations:

DELETION (a base is lost)

INSERTION (an extra base is inserted)

Deletion and insertion may cause what's called a **FRAMESHIFT**, meaning the reading "frame" changes, changing the amino acid sequence.

SUBSTITUTION (one base is substituted for another)

Substitutions cause **POINT MUTATIONS**.

If a substitution *changes* the amino acid, it's called a **MISSENSE** point mutation.

If a substitution *does not change* the amino acid, it's called a **SILENT** point mutation.

If a substitution *changes the amino acid to a "stop"*, it's called a **NONSENSE** point mutation.



Complete the boxes below. Classify each as either Frameshift or Point mutations, then specify further with *Deletion, Insertion, or Substitution*. Use the chart on the following page in order to determine the amino acid sequence. Remember, RNA has Uracil instead of Thymine.

Original DNA Sequence: T A C A C C T T G G C G A C G A C T

mRNA Sequence: A U G U G G A A C C G C U G C U G A

Amino Acid Sequence: Met - Trp - Asn - Arg - Cys - STOP

Mutated DNA Sequence #1: T A C A T C T T G G C G A C G A C T

What's the mRNA sequence? (Circle the change) A U G U G A A C C G C U G C U G A

What will be the amino acid sequence? Met - STOP

Will there likely be effects? YES!

What kind of mutation is this? Point Substitution - Nonsense

Mutated DNA Sequence #2: T A C G A C C T T G G C G A C G A C T

What's the mRNA sequence? (Circle the change) A U G U G G A A C C G C U G C U G A

What will be the amino acid sequence? Met - Leu - Glu - Pro - Leu - Leu

Will there likely be effects? YES!

What kind of mutation is this? Frameshift Insertion

Mutated DNA Sequence #3: T A C A C C T T A G C G A C G A C T

What's the mRNA sequence? (Circle the change) A U G U G G A A C C G C U G C U G A

What will be the amino acid sequence? Met - Trp - Asn - Arg - Cys - STOP

Will there likely be effects? No!

What kind of mutation is this? Point Substitution - Silent

Mutated DNA Sequence #4: T A C A C C T T G G C G A C T A C T

What's the mRNA sequence? (Circle the change) A U G U G G A A C C G C U G A U G A

What will be the amino acid sequence? Met - Trp - Asn - Arg - STOP

Will there likely be effects? Yes!

What kind of mutation is this? Point Substitution - Nonsense

Mutated DNA Sequence #5: T A C A C C T T G G G A C G A C T

What will be the corresponding mRNA sequence? A U G U G G A A C C C U G C U G A

What will be the amino acid sequence? Met - Trp - Asn - Pro - Ala

Will there likely be effects? Yes!

What kind of mutation is this? Frameshift Deletion

Genetic Mutation Pogil Answer Key

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Genetic Mutation Pogil Answer Key:

Understanding the Impact of Gene mutation on Health & Diseases. An Overview. Dr.HAKIM ,2020-04-09 Each cell depends on thousands of proteins to do their jobs in the right places at the right times to function correctly Sometimes gene mutations prevent one or more of these proteins from working properly By changing a gene s instructions for making a protein a mutation can cause the protein to malfunction or to be missing entirely When a mutation alters a protein that plays a critical role in the body it can disrupt normal development or cause a medical condition A condition caused by mutations in one or more genes is called a genetic disorder In some cases gene mutations are so severe that they prevent an embryo from surviving until birth These changes occur in genes that are essential for development and often disrupt the development of an embryo in its earliest stages Because these mutations have very serious effects they are incompatible with life It is important to note that genes themselves do not cause disease genetic disorders are caused by mutations that make a gene function improperly For example when people say that someone has the cystic fibrosis gene they are usually referring to a mutated version of the CFTR gene which causes the disease All people including those without cystic fibrosis have a version of the CFTR gene An attempt has been made in this informative Booklet to summarize the fundamental topics related to genetic mutations and its impact on health and development along with several illustrations Dr H K Saboowala M B Bom M R S H London

Finding Mutations J. Ross Hawkins,1997 *Student Solutions Manual and Supplemental Problems to Accompany Genetics* Daniel L. Hartl,Elizabeth W. Jones,2004-09-07 This introductory college level textbook introduces the basic processes of gene transmission mutation expression and regulation Hartl Harvard U and Jones Carnegie Mellon U present an integrated view of the modern world of genetics treating classical molecular and population genetics as unified subdisciplines within the field Modern an

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